

Federal Communications Commission

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2. Testing for compliance with these limits may be made at closer distances, provided a sufficient number of measurements are taken to plot the radiation pattern, to determine the major lobes of radiation, and to determine the expected field strength level at 30, 300, or 1600 meters. Alternatively, if measurements are made at only one closer fixed distance, then the permissible field strength limits shall be adjusted using 1/d as an attenuation factor.

[50 FR 36070, Sept. 5, 1985, as amended at 51 FR 17970, May 16, 1986; 52 FR 43197, Nov. 10, 1987]

§ 18.307 Conduction limits.

For the following equipment, when designed to be connected to the public utility (AC) power line the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies shall not exceed the limits in the following tables. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal using a 50 μ H/50 ohms line impedance stabilization network (LISN).

(a) All Induction cooking ranges and ultrasonic equipment:

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.009–0.05	110	—
0.05–0.15	90–80*	—
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

* Decreases with the logarithm of the frequency.

(b) All other part 18 consumer devices:

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz.	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz.	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower.	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower.	Tenth harmonic.
Above 1,000do	Tenth harmonic or highest detectable emission.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

* Decreases with the logarithm of the frequency.

(c) RF lighting devices:

Frequency (MHz)	Maximum RF line voltage measured with a 50 μ H/50 ohm LISN (μ V)
Non-consumer equipment:	
0.45 to 1.6	1,000
1.6 to 30	3,000
Consumer equipment:	
0.45 to 2.51	250
2.51 to 3.0	3,000
3.0 to 30	250

(d) If testing with a quasi-peak detector demonstrates that the equipment complies with the average limits specified in the appropriate table in this section, additional testing to demonstrate compliance using an average detector is not required.

(e) These conduction limits shall apply only outside of the frequency bands specified in § 18.301.

(f) For ultrasonic equipment, compliance with the conducted limits shall preclude the need to show compliance with the field strength limits below 30 MHz unless requested by the Commission.

(g) The tighter limits shall apply at the boundary between two frequency ranges.

[50 FR 36067, Sept. 5, 1985, as amended at 52 FR 43198, Nov. 10, 1987; 64 FR 37419, July 12, 1999; 67 FR 45671, July 10, 2002]

§ 18.309 Frequency range of measurements.

(a) For field strength measurements:

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(b) For conducted powerline measurements, the frequency range over which the limits are specified will be scanned.

[50 FR 36070, Sept. 5, 1985, as amended at 51 FR 17971, May 16 1986]

§ 18.311 Methods of measurements.

The measurement techniques which will be used by the FCC to determine compliance with the technical requirements of this part are set out in FCC Measurement Procedure MP-5, "Methods of Measurements of Radio Noise Emissions from ISM equipment". Although the procedures in MP-5 are not mandated, manufacturers are encouraged to follow the same techniques which will be used by the FCC.

PART 19—EMPLOYEE RESPONSIBILITIES AND CONDUCT

Subpart A—General Provisions

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AUTHORITY: 5 U.S.C. 7301; 47 U.S.C. 154 (b), (i), (j), and 303(r).

SOURCE: 61 FR 56112, Oct. 31, 1996, unless otherwise noted.

Subpart A—General Provisions

§ 19.735-101 Purpose.

The regulations in this part prescribe procedures and standards of conduct that are appropriate to the particular functions and activities of the Commission, and are issued by the Commission under authority independent of the uniform Standards of Ethical Conduct

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for Employees of the Executive Branch at 5 CFR part 2635 or otherwise in accordance with 5 CFR 2635.105(c).

§ 19.735-102 Cross-reference to ethics and other conduct related regulations.

In addition to the rules in this part, employees of the Federal Communications Commission (Commission) are subject to the Standards of Ethical Conduct for Employees of the Executive Branch at 5 CFR part 2635 and the Commission's regulations at 5 CFR part 3901 which supplement the executive branch-wide standards, the executive branch financial disclosure regulations at 5 CFR part 2634 and the Commission's regulations at 5 CFR part 3902 which supplement the executive branch-wide financial disclosure regulations, and the employee responsibilities and conduct regulations at 5 CFR part 735.

§ 19.735-103 Definitions.

Commission means the Federal Communications Commission.

Communications Act means the Communications Act of 1934, as amended, 47 U.S.C. 151 *et seq.*

Employee means an officer or employee of the Commission including special Government employees within the meaning of 18 U.S.C. 202(a) and the Commissioners.

Person means an individual, a corporation, a company, an association, a firm, a partnership, a society, a joint stock company, or any other organization or institution.

§ 19.735-104 Delegations.

(a) The Commission has delegated to the Chairman responsibility for the detection and prevention of acts, short of criminal violations, which could bring discredit upon the Commission and the Federal service.

(b) *Approvals under 18 U.S.C. 205(e)*. (1) Commissioners may approve the representational activities permitted by 18 U.S.C. 205(e) by other employees in their immediate offices. The Designated Agency Ethics Official has delegated authority to grant such approvals for all other employees except Commissioners.